# CAPABILITY STATEMENT

## DECOMMISSIONING

VERTECH

## THE PURPOSE

This document is composed to assist our clients and the supply chain to understand our group operating structure along with a high-level understanding of the benefits, services and specialist packages associated with our decommissioning specialisation.

# WHO WE ARE

VERTECH

Vertech provide specialist access, inspection, maintenance and engineering services across various industries. We deliver solutions to support companies managing assets and infrastructure in diverse sectors. Our expertise extends to offering advanced access systems and inspection services for maintenance, upgrades, repairs and remediation projects.

## DECOMMISSIONING

Vertech's V-COMM Decommissioning Package was formed to support the full decommissioning cycle. Providing a collection of specialist services, systems, processes, and products, Vertech's experts will work alongside each client to achieve environmental & safety excellence, reduce cost through efficiency, and exceed all regulatory requirements.

The Australian offshore petroleum industry has existed since the early 1960s. As the sector matures, more offshore petroleum projects across the APAC region are reaching the end of their productive lives. A substantial number of the approximately 136 fixed facilities (including pipelines) is anticipated to commence decommissioning activities in the coming decade.

## DECOMMISSIONING SERVICES

Each piece of infrastructure can present its own unique decommissioning challenges due to the combination of infrastructure type and its location in the surrounding environment.

Major offshore infrastructure that requires decommissioning at the end of a project includes:

- Surface Infrastructure – Concrete and steel platforms including topsides and jackets
- Floating Installations – Floating production facilities (FPSOs)
- Pipelines – Trunk lines, rigid flow lines, flexible flowlines, umbilicals
- Subsea Systems – Wellheads, production modules, anchors, CGSs, mattresses

# DECOMMISSIONING PLANNING

The foundations of a successful decommissioning project are built through detailed planning and early engagement with regulatory bodies and specialist contractors relevant to each phase of the decommissioning cycle. This early engagement ensures a comprehensive and shared understanding of the specifics of the Well Management Plan (WMP), Field Management Plan (FMP), Environmental Plan (EP), and Safety Case (SC) and how this framework combined with the specific state regulatory requirements/bodies will impact each phase of the decommissioning cycle.

From environmental, topside and subsea engineering through to implementation management, Vertech has a wealth of experience and skills that can provide critical services throughout the comparative risk, cost, environmental and regulatory approval phases. Our team also have the understanding to most effectively utilise the tacit knowledge gained in these early stages, using it to improve the support, selection and implementation of the final decommissioning methodology.

## DECOMMISSIONING PLANNING SERVICES

- Environmental engineering
- Site survey & assessment
- Integrated activity planning
- Technical services
- Project engineering
- Rigging and lift planning

# TOPSIDE OR DISCONNECT PREPARATION

Before the full decommissioning process can be undertaken, the platform, FPSO or asset must be prepared. This is a crucial preparatory phase in the decommissioning cycle. Vertech's multi-disciplined, high-mobility inspection and maintenance teams can provide maximum value at this phase. For offshore platforms, the integrity of the infrastructure needs to be carefully surveyed and understood in anticipation of major lifting operations.

Simultaneously, the assessment, planning, and execution of major plant and machinery removal are required to ensure environmental protections are in place. When it comes to floating assets, major module lifts are unlikely, so the campaign's principal focus shifts to hull structural integrity for towing operations, machinery removal, and disconnecting critical systems (electrical, hydraulic, etc.).

Vertech works with affiliate company Geo Oceans to deliver comprehensive topside and subsea preparation services during the disconnect phase. While Vertech's high-mobility teams focus on structural inspection, rigging, and removal works, Geo Oceans supports the campaign with advanced Mini-ROV and AUV surveys, as well as environmental baseline inspections. Together, our integrated services include:

- Premobilisation training and mock-ups
- Rigging, lifting and removal of anything not part of the primary structure
- Inspecting and surveying primary, secondary or marine structures
- Cutting and mechanical services to remove piping and tertiary steelwork
- Inspection of process and plant equipment's structural integrity
- Removal and cutting of cables between deck modules
- Inspecting, NDT, proof load testing, and installing lifting points
- Subsea inspection of marine growth, hull, and jacket structures
- Access management & planning
- Subsea infrastructure surveying – Mini-ROV and Autonomous Underwater Vehicle survey
- Preparing detailed rigging and lift plans
- Building detailed safe work method statements
- Subsea marine environmental baseline inspections

# TOPSIDE AND JACKET OR DISCONNECT

The topside and jacket removal is the largest cost and risk to the decommissioning cycle. Depending on the selected decommissioning methodology, almost two-thirds of the total costs can come from the removal. Having the right tooling and specialists to minimise delays and provide dynamic support is imperative.

FPSO disconnects are significantly quicker and have a lower risk and cost profile than platforms. The disconnect phase involves disconnecting the production risers, umbilicals, and mooring chains from the FPSO for its sail away, followed by carefully removing and disposing of the turret mooring system and subsea infrastructure.

## TOPSIDE AND JACKET OR DISCONNECT SUPPORT

- Access management & planning
- Major lift rigging and lifting implementation
- Preparing detailed rigging and lift plans
- Building detailed safe work method statements
- Subsea / topside live visual feed through ROV systems
- Cutting and mechanical services

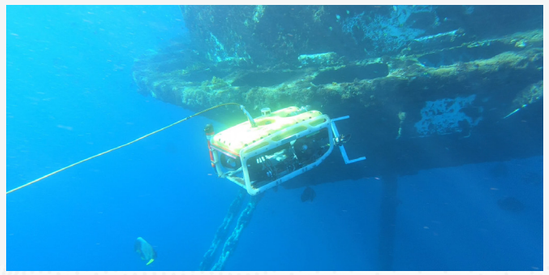
# POST COMMISSIONING MONITORING

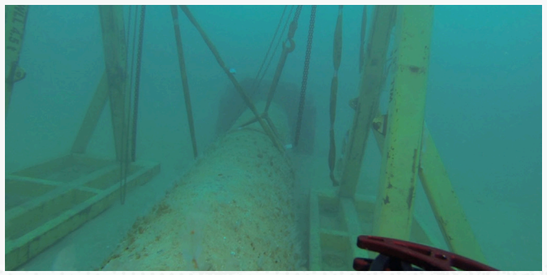
Decommissioning activities are regulated through the submission and approval of revised Field Management Plans (FMP), Well Management Plans (WMP), Environment Plans (EP) and Safety Cases (SC). Our specialists work closely with the asset owner to plan and optimise environmental monitoring (particularly where infrastructure is partially commissioned or decommissioned in situ) to confirm that impacts have been reduced to ALARP. Through our subsidiaries in Geo Oceans, Vertech is able to offer asset-deployed or vessel-of-opportunity Mini-ROV systems and industry-leading Autonomous Underwater Vehicle (AUV) systems for detailed and comprehensive post-decommissioning monitoring.

Geo Oceans has set a new standard in survey efficiency and data quality by performing real-time data analysis and processing tasks in the field. Our ROV systems and towed cameras combine with our GO Visions™ software, allowing us to create fine-scale habitat maps across large areas far more accurately and efficiently than previously possible. The data collected will enable us to provide fish surveys with millimetre accuracy and bathymetry survey data for mapping marine habitats. Geo Oceans also combines a fleet of industry-leading light Autonomous Underwater Vehicle (AUV) technology, marine scientists, specialist tooling, sensors, and cutting-edge software to provide fully autonomous subsea post-decommissioning monitoring and survey packages.

## GEO OCEANS SPECIALISE IN:

- Real-time statistical data processing to check the data meets requirements
- Production of fine-scale subsea maps (in real- time)
- Stereo images allow accurate size measurements
- HD still imagery and video footage with real time data transfer
- Scour monitoring
- Passive Acoustic Monitoring (PAM)
- Environmental and ecological surveys
- Water and sediment sampling / testing
- Meteorological and oceanographic surveys
- Scour monitoring
- Benthic habitat mapping





# CASE STUDIES

### RTM DECOMMISSIONING

Vertech was contracted to assist with decommissioning a Riser Turret Mooring (RTM) from a disconnected FPSO. The project required detailed front-end planning to access the structure, survey it using Remote Digital Visual Inspection (RDVI), and use NDT to confirm the integrity of the RTM's internal watertight systems.

### NORTH RANKIN DERRICK DECOMMISSIONING

Vertech was decommissioning the North Rankin Derrick, a drilling derrick on an offshore production platform, whilst the platform was operational. Vertech provided planning, engineering and technical services, completed onshore mock-up trials, and managed multi-disciplinary rope access personnel to complete this challenging project successfully.

### NE: DECOMMISSIONING INSPECTION SUPPORT

Vertech currently has a team of five inspectors conducting inspection activities on the Northern Endeavour. The scope of work includes piping, pressure vessel, and structural inspections; ultrasonic thickness measurements in line with Lloyd's survey requirements; PDO sweeps; and NDT to support the decommissioning process.

### NE FPSO DECOMMISSIONING PLANNING

Woodside engaged Vertech to conduct thorough inspection & integrity assessments as part of the decommissioning assessment phase.

This included work on items such as facility fixed lifting points and structures, fairleads, main sheaves and handling tables, riser winch assemblies, turret main winches, riser hook-up pulling boom boxes, and the primary marine structures.

# COMBINED SERVICES

Vertech work alongside a Group of affiliated companies that together, deliver a comprehensive range of asset integrity, inspection, maintenance and specialist access services across a wide range of industries and sectors across Australia and the Asia Pacific. Our shared capabilities span project management, NDT, drone and ROV inspections, 3D modelling, specialist access and maintenance, and environmental and export infrastructure services.

**Vertech** – Experts in specialist access, NDT and inspection, maintenance, and repairs.
**Geo Oceans** – Leaders in Mini-ROV IRM and water inspection, with expertise in AUV and ASV deployment.
**Sonomatic** – A global leader in specialised NDT and integrity inspection solutions.
**AUAV** – Specialists in UAV, drone-based inspections, and 3D modelling.
**Remo Technical Services** – A leading supplier of turbine installation, maintenance, and inspection services.
**Abseil Access** - Specialists in bridge engineering, geotechnical slope stabilisation, rockfall protection, and rope access solutions.

Together, we deliver tailored service packages designed to meet the specific needs of each client and asset. By collaborating across our group of companies, we drive innovation, improve safety, and ensure consistent delivery of high standards across the mining and infrastructure sectors.

VERTECH | GEO OCEANS | SONOMATIC | AUAV | ABSEIL ACCESS | REMO

## OUR 4 CORE VALUES

PEOPLE

SAFETY

QUALITY

INNOVATION

# GROUP SUMMARY

## GEO OCEANS

Geo Oceans is an award winning subsea services provider delivering innovative and disruptive ROV inspection solutions to a global client base. We specialise in developing and deploying small ROV systems and subsea robotics directly from assets or vessels of opportunity to provide clients with reliable, safe, low carbon and low cost solutions for managing subsea asset integrity. We are also experts in the planning and execution of offshore surveys, using autonomous survey vehicles (AUV).

## SONOMATIC

Sonomatic specialise in the design, development and application of Non-Destructive Testing (NDT) inspections. Since the company's formation in the 1980s, we have combined these NDT processes with integrity engineering capabilities to provide fully integrated inspection packages that directly meet the needs of the client.

Bringing innovative bespoke inspection solutions to the market through in-house development of equipment, software and robotics, Sonomatic resides as the global leader for ROV-deployed subsea inspection and Non-Intrusive Inspection (NII) technologies.

## AUAV

AUAV is a drone service provider established in 2013. We offer topographical surveys, LiDAR, inspection, 3D modelling, and bespoke projects. Our team are full-time employees, ensuring quality control. Our proprietary inSite data solution provides consulting, capture, and hosting. We're a top 20 drone service provider globally, certified by the Australian Civil Aviation Safety Authority and insured.

## REMO

REMO Technical Services specialises in turbine installation, maintenance, and inspection. We offer a managed solution based on extensive experience in wind and renewable energy building on their reputation established through successful wind turbine installation and commissioning projects across Europe.

## ABSEIL ACCESS

Abseil Access has supplied industry-leading services including bridge design, bridge engineering and construction, Geotechnical slope stabilisation and rockfall protection, conservation, and rope access services across a multitude of sectors since 1992. In that time, the Abseil Access team have come to understand the frequently encountered challenges our customers face and how we can provide maximum value. Our offices are located in Wellington, Christchurch, Nelson, and New Plymouth to support operations in even the most remote parts of New Zealand.

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